Scorpion™ GrafX
LG-80

Snapshot

OK on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX512	✓
Master/Slave	✓
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

USER MANUAL



Chauvet, 3000 N 29th Ct, Hollywood, FL 33020 U.S.A.
(800) 762-1084 – (954) 929-1115
FAX (954) 929-5560
www.chauvetlighting.com

TABLE OF CONTENTS

1. BEFORE YOU BEGIN

What is Included

- 1 x Scorpion™ GrafX
- Power Cord
- Warranty Card
- User Manual

Optional Accessories

- 1 x GrafXpress™ controller and software for creating custom images and animations

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

Warning! ***Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth Ground.***

Contact Us

World Wide

General Information	Chauvet Lighting 3000 North 29th Court Hollywood, FL 33020 voice: 954.929.1115 fax: 954.929.5560 toll free: 800.762.1084
Technical Support	Chauvet Lighting 3000 North 29th Court Hollywood, FL 33020 voice: 954.929.1115 **(Press 4)** fax: 954.929.5560 **(Attention: Service)**
World Wide Web	www.chauvetlighting.com

Safety Instructions

Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only! (If applicable)
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 95°F (35°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Caution! ***There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.***



2. INTRODUCTION

Features

Control Features

- 14-channel DMX-512 controlled moving yoke green laser
- Pan: 510° / tilt: 260°
- Operating modes: sound-active, auto, DMX, ILDA DB-25 or GrafXpress™
- 9 pages of 48 cues yield 432 cues onboard
- Adjustable pattern size, scan (X/Y) location, pattern speed and zoom
- Laser on/off via DMX
- Custom text, patterns and animated graphics via GrafXpress™

Additional Features

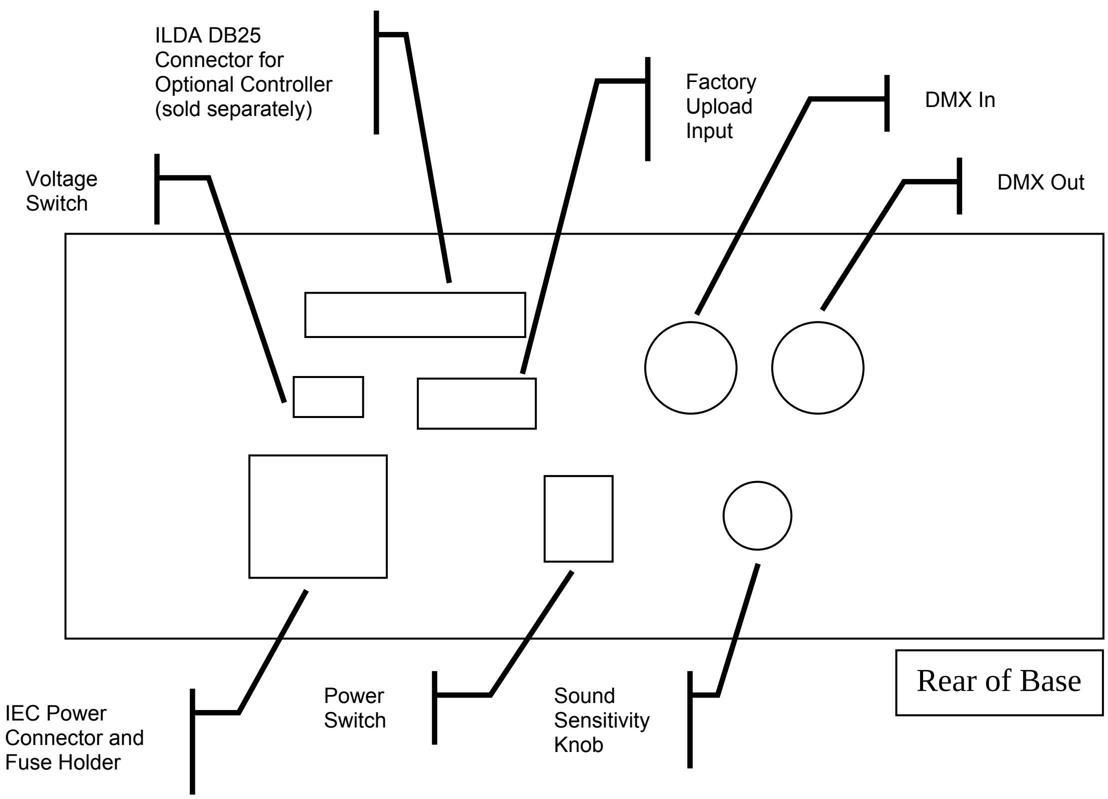
- Powered by Pangolin Control Systems
- High-speed precision Galvo 12K scanners
- Dual hanging brackets with ¼-turn fasteners
- Sound sensitivity control
- Rugged construction
- Fan cooled

DMX Channel Summary

CHANNEL	FUNCTION
1	Pan
2	Tilt
3	Vector speed
4	Laser enable
5	Page select
6	Cue select
7	Animation speed
8	Dimmer
9	Zoom
10	Rotate about the Y Axis
11	Rotate about the X Axis
12	Rotate image
13	X offset
14	Y offset

Product Overview





3. COMPLIANCE STATEMENT

Your LG-80 complies with FDA/CDRH 21CFR1040, 1540.11, and Laser Notice 50 as well as IEC 60825-1:2003. Due to a unique optic design, this product does not exceed output powers that exceed its classification and output levels government agencies have determined to be appropriate for the products function.

Laser Safety and Compliance Information

This product is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administrations (FDA) Standards listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification

Laser Classification	Class IIIa
Laser Medium	DPSS YVO4 532nm
Cooling	Fan Cooled
Output	<5mW
Beam Diameter at aperture	2 - 3 mm
Beam Divergence	Optically adjusted for compliance
Radiant Exposure at Aperture	<4.95mW

There is only one laser aperture on this product.







CAUTION: AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.



Non-Interlocked Housing Warning Labels. This unit contains an embedded laser device that exceeds the output of the intended class internally. Exposure to unsafe levels of laser radiation when opened.

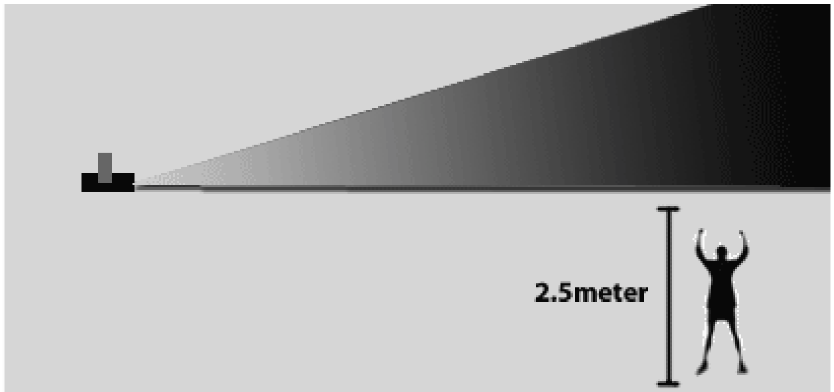


Additionally there are no user serviceable parts inside. Tampering with or removing warranty seals will void your product's limited warranty.

Proper Usage

This unit has been designed to be hung. It is recommended that, for safety purposes, your lighting effects are properly mounted using a suitable hanging clamp and safety cable. **CHAUVET** offers a range of items, which are ideal for safe mounting.

It is the responsibility of the manufacturer to provide useful instruction on the proper use of this product. According to FDA Regulations you should operate the product in the fashion illustrated below.



CAUTION: Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure

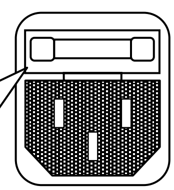
4. SETUP

⚠ Disconnect the power cord before replacing a fuse and always replace with the same type fuse. ⚠

Fuse Replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a flat head screwdriver.



Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)
Maximum recommended number of fixtures on a serial data link: 32 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET-certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DMX DATA CABLE

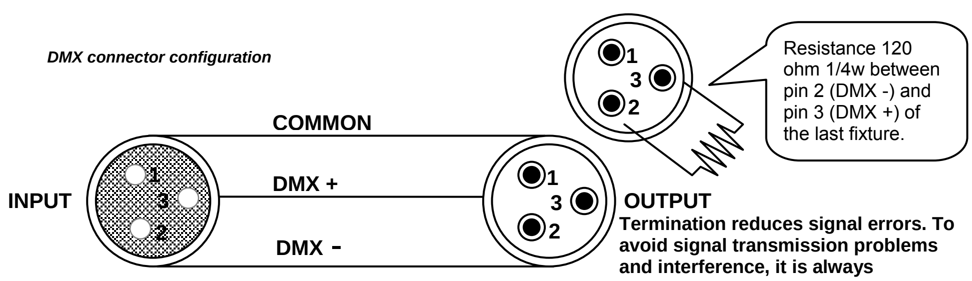
Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
Maximum capacitance between conductor and shield – 55 pF/ft.
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms

CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX connector configuration



Termination reduces signal errors. To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.

CAUTION Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-PIN TO 5-PIN CONVERSION CHART

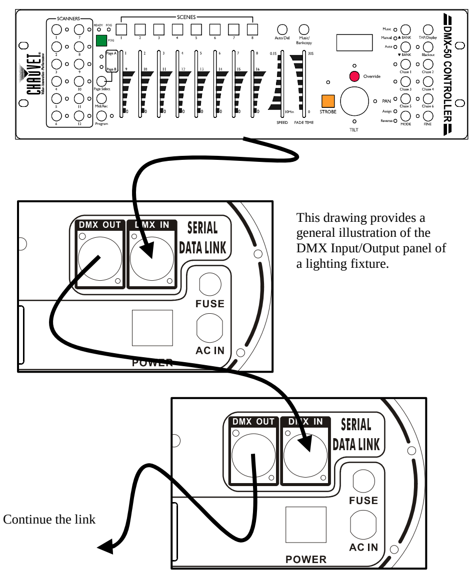
Note! If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter.
CHAUVET Model No: DMX5M, or DMX5F.
The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data (-) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

Setting up a DMX Serial Data Link

Universal DMX Controller



This drawing provides a general illustration of the DMX Input/Output panel of a lighting fixture.

Continue the link

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

CHAUVET Certified DMX Data Cables

Order Code	Description
DMX1.5	DMX Cable 1.5m/4.9ft
DMX4.5	DMX Cable 4.5m/14.8ft
DMX10	DMX Cable 10m/32.8ft

Master/Slave Fixture Linking

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting. Please consult the “Operating Instructions” section in this manual for complete instructions for this type of setup and configuration.



Mounting

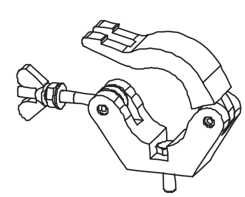
ORIENTATION

This fixture may be mounted in any position provided there is adequate room for ventilation.

RIGGING

It is important never to obstruct the fan or vents pathway. Mount the fixture using, a suitable “C” or “O” type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

Hanging Clamp



Note!
Clamp is sold separately.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables must always be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

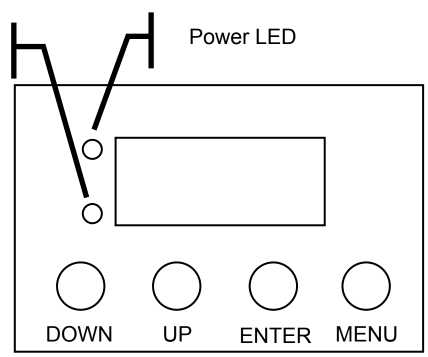
5. OPERATING INSTRUCTIONS

Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.

Button	Function
<DOWN>	Scrolls through menu options in descending order
<UP>	Scrolls through menu options in ascending order
<ENTER>	Used to select and store the current menu or option within a menu
<MENU>	Used to access the menu or to return to a previous menu option

DMX LED

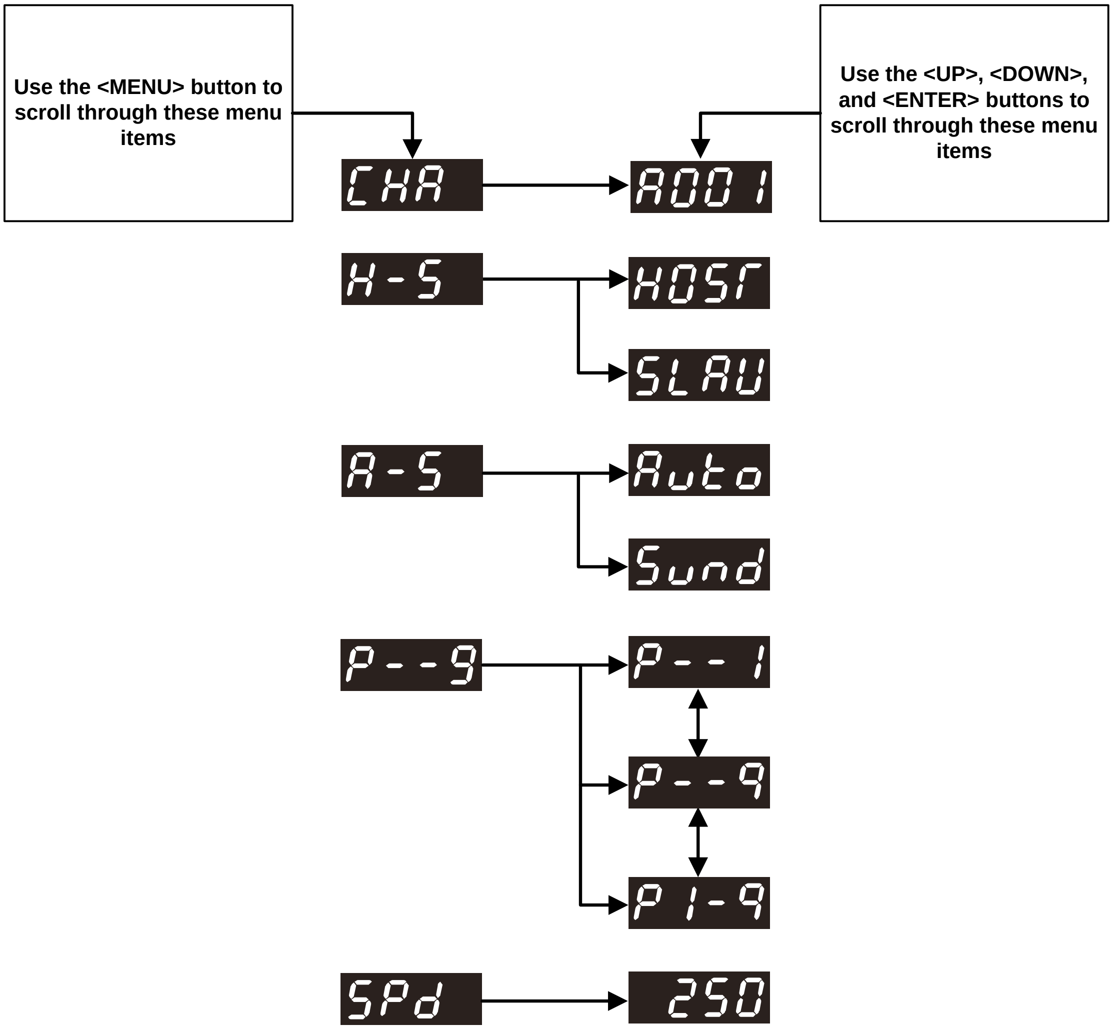


Power LED

The Control Panel LED Display shows the menu items you select from the menu map on page #. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Press the **<MENU>** button repeatedly to scroll through the menu map options. This is the top of the menu map. Use the **<UP>** and **<DOWN>** buttons to choose different options within a menu map item. Press the **<ENTER>** button to access the menu function currently displayed or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MODE>** button.

Menu Map



Use the <MENU> button to scroll through these menu items
Use the <UP>, <DOWN>, and <ENTER> buttons to scroll through these menu items
CHA
A001
H-S
HOST
SLAV
A-S
Auto
Sund
P--9
P--1
P--9
P1-9
SPd
250

Menu Functions

MENU OPTION	DESCRIPTION
CHA	**DMX:** The fixture will be controlled by a DMX signal coming from a DMX controller. The starting address must be selected, and can be set using the up and down buttons.
H-S	**Master/Slave:** Sets the fixture to run in Master/Slave mode. Set whether this fixture is the Master or the Slave within this menu.
A-S	**Auto or Sound-Active:** Choose **Sound-Active** or **Auto** from this menu.
P--9	**Page –** Sets the page number to use for displaying images in Sound Active or Auto modes. “P1-9” will display all cues.
SPd	**Speed:** Sets the time delay between image changes in Auto mode. The larger the number, the lower the delay.
HOSΓ	**Master Unit:** Sets the fixture to Master status for Master-Slave operation. You must then specify **Auto** or **Sound-Active** modes from the **A-S** menu.
SLAU	**Slave Unit:** Sets the fixture to run in sync with the Master. You must set the first fixture in the data link to “Master” otherwise nothing will happen.
Sund	**Sound-Active – Master Unit:** Sets the fixture to Master status for Master-Slave operation and the built in programs will be triggered by the sound. No data link is required; all fixtures can be set to this mode for Stand-alone operation.
Auto	**Automatic – Master Unit:** Sets the fixture to Master status for Master-Slave operation and the built in programs will be triggered automatically. No data link is required; all fixtures can be set to this mode for Stand-alone operation.

Note about frame rate:

This laser is capable of displaying 12,000 points per second. The frame rate of the fixture will vary between different images, because each image is composed of a different number of points. To determine the frame rate for a given image, divide 12,000 by the number of points in the image (the number of points in the image can be found in the GrafXpress software). For example, if an image had 500 points, the refresh rate would be 24 frames per second (12,000 / 500 = 24). Keep in mind that video cameras may record flickering in images that have low frame rates. As a general rule when recording video, the frame rate of the laser should be at least twice the frame rate of the video camera.

Operation

Stand-Alone Mode (Sound-Active, Auto Mode):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

1) Press **<MENU>** repeatedly until H - S is displayed and select it by pressing **<ENTER>**.
2) Scroll through using the **<UP>** and **<DOWN>** buttons until HOST is displayed and select it.
3) Press **<MENU>** repeatedly until A - S is displayed and select it by pressing **<ENTER>**.
3) Scroll through and select the desired mode. Auto is Auto mode, Sund is Sound-Active mode.

Master/Slave Mode (Master Sound, Master Auto):

This mode will allow you to link up to 32 units together without a controller.

1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture. For more information about terminators, see page 9.

2) Choose a unit to function as the Master. Press **<MENU>** repeatedly on the Master unit until H - S is displayed and select it by pressing **<ENTER>**.

2) Scroll through using the **<UP>** and **<DOWN>** buttons until HOST is displayed and select it.
3) Press **<MENU>** repeatedly until A - S is displayed and select it by pressing **<ENTER>**.
4) Scroll through and select the desired mode. Auto is Auto mode, Sund is Sound-Active mode.

5) On the Slave fixtures, Press **<MENU>** repeatedly on the Master unit until H - S is displayed and select it by pressing **<ENTER>**.

6) Scroll through until SLAV is displayed and select it.

DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. If you are unfamiliar with DMX, please read the DMX Primer on page 18.

1) Press **<MODE/ESC>** until CHA is displayed.
2) Use the **<UP>** and **<DOWN>** buttons to select the desired address and press the **<ENTER>** button.

DMX Channel Values (example)

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 255	**Pan**
2	000 ⇔ 255	**Tilt**
3		**Vector Speed:**
	000 ⇔ 255	Normal → Slow
4		**Laser Enable**
	000 ⇔ 031	Disable
	032 ⇔ 255	Enable
5		**Image Page Select:**
	000 ⇔ 030	Page 1
	031 ⇔ 061	Page 2
	062 ⇔ 092	Page 3
	093 ⇔ 123	Page 4
	124 ⇔ 154	Page 5
	155 ⇔ 185	Page 6
	186 ⇔ 216	Page 7
	217 ⇔ 247	Page 8
	248 ⇔ 255	Page 9
6		**Cue (Image) Select:**
	000 ⇔ 004	Cue 1
	005 ⇔ 009	Cue 2
	010 ⇔ 014	Cue 3
	015 ⇔ 019	Cue 4
	020 ⇔ 024	Cue 5
	025 ⇔ 029	Cue 6
	030 ⇔ 034	Cue 7
	035 ⇔ 039	Cue 8
	040 ⇔ 044	Cue 9
	045 ⇔ 049	Cue 10
	050 ⇔ 054	Cue 11
	055 ⇔ 059	Cue 12
	060 ⇔ 064	Cue 13
	065 ⇔ 069	Cue 14
	070 ⇔ 074	Cue 15
	075 ⇔ 079	Cue 16
	080 ⇔ 084	Cue 17
	085 ⇔ 089	Cue 18
	090 ⇔ 094	Cue 19
	095 ⇔ 099	Cue 20
	100 ⇔ 104	Cue 21
	105 ⇔ 109	Cue 22
	110 ⇔ 114	Cue 23
	115 ⇔ 119	Cue 24
	120 ⇔ 124	Cue 25
	125 ⇔ 129	Cue 26
	130 ⇔ 134	Cue 27
	135 ⇔ 139	Cue 28
	140 ⇔ 144	Cue 29
	145 ⇔ 149	Cue 30
	150 ⇔ 154	Cue 31
	155 ⇔ 159	Cue 32
	160 ⇔ 164	Cue 33
	165 ⇔ 169	Cue 34
	170 ⇔ 174	Cue 35
	175 ⇔ 179	Cue 36
	180 ⇔ 184	Cue 37
	185 ⇔ 189	Cue 38
	190 ⇔ 194	Cue 39
	195 ⇔ 199	Cue 40
	200 ⇔ 204	Cue 41
	205 ⇔ 209	Cue 42
	210 ⇔ 214	Cue 43
	215 ⇔ 219	Cue 44

	220 ⇔ 224 225 ⇔ 229 230 ⇔ 234 239 ⇔ 255	Cue 45 Cue 46 Cue 47 Cue 48
7	 000 ⇔ 024 025 ⇔ 127 128 ⇔ 255	**Animation Speed:** 0% (No Animation) 1 → 10% 10 → 100%
8	000 ⇔ 255	**Dimmer:** 0 – 100%
9	000 ⇔ 255	**Zoom:** Zero Size → Full Size
10	000 ⇔ 255	**X Size:** Flipped → Zero Size → Normal
11	000 ⇔ 255	**Y Size:** Flipped → Zero Size → Normal
12	000 ⇔ 255	**Image Rotate:** 0 → 360 Degrees
13	000 ⇔ 255	**X Position:** Left → Center → Right
14	000 ⇔ 255	**Y Position:** Left → Center → Right

Note: Zoom (channel 9) must be at least DMX value 008 to see an image!

General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via ¼" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No laser output	Bounce mirror motor may have shifted during shipping, readjust	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All Chauvet lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the next page.

Technical Support

Address: Service Dept.
3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email): tech@chauvetlighting.com
Telephone: (954) 929-1115 - (Press 4)
Fax: (954) 929-5560 - (Attention: Service)
Website: http://www.chauvetlighting.com

6. APPENDIX

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33’), DMX-4.5 (15’) and DMX-1.5 (5’)

General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RA #, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) The RA #
5) A brief description of the symptoms

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

Technical Specifications

WEIGHT & DIMENSIONS

Length	10 in (245 mm)
Width	10 in (245 mm)
Height	15 in (325 mm)
Weight	16.7 lbs (7.6 kg)

POWER

Switch-selectable power settings	120V 60Hz AC or 230V 50Hz
Power Consumption	66W (0.65A) max at 120V
Inrush Power	118.7W (2.86A) at 120V
Power Factor	0.84

LASER

Diode	1 x 4.95mW green laser
Wavelength	532 nm
Laser Type	DPSS
Laser Output	<5mW
Cooling	Fan Cooled

PHOTO OPTIC

Pan	510°
Tilt	260°

THERMAL

Maximum ambient temperature	104°F (40°C)

FUSE

Main	20mm Glass 2A 250V Fast Blow

CONTROL & PROGRAMMING

Data input	locking 3-pin XLR male socket
Data output	locking 3-pin XLR female socket
Data pin configuration	pin 1 shield, pin 2 (-), pin 3 (+)
Protocols	DMX-512 USITT
DMX Channels	14

ORDERING INFORMATION

Scorpion GrafX	LG-80
Controller and software	GrafXpress

WARRANTY INFORMATION

Warranty	2-year limited warranty (90 days on laser diode)